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[PDF] IPv6 In DOCSIS 3.0 Overview

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CM performs duplicate address detection (DAD) to confirm link-local address is ... Uses TFTP [RFC1350]. Requirements identical to DOCSIS 2.0. CMTS. DHCP ...

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draft-mule-cablelabs-docsis3-ipv6-00 - DOCSIS 3.0 Requirements for ...

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System and Method for Detecting and Reporting Cable Modems with ...

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Prevention of Cloning Attacks in a DOCSIS Network - Patent 20070276943

Data Over Cable Interface Specification (DOCSIS) is a known standard defining ...

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Method and system for seamless address allocation in a data-over ...

Method of configuring a valid IP address and detecting duplicate IP addresses Method for authentication of network devices in a data-over cable system ...

www.patentstorm.us/patents/6775276.html - 58k - Cached - Similar pages

Cisco CMTS Feature Guide - Cable Duplicate MAC Address Reject for ...

Feb 5, 2007 ... Enforcing DOCSIS BP1+ Compliance with Layer 2 Logging on the Cisco CMTS. System Messages Supporting Cable Duplicate MAC Address Reject ...

www.cisco.com/en/US/docs/cable/cmts/feature/guide/ufg_cmd.html - 49k -

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[PDF] Data-Over-Cable Service Interface Specifications IPv4 and IPv6 ...

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DOCSIS MAC and Upper Layer Protocol Interface Specification, ..., Duplicate Address Detection. DNS. Domain Name Service. DUID. DHCP unique identifier ...

www.cablelabs.com/specifications/CM-SP-eRouter-103-070518.pdf - Similar pages

RFC 4947 (rfc4947) - Address Resolution Mechanisms for IP ...

DOCSIS uses DHCP for IP client configuration. The Cable Modem Terminal participation in IPv6 Duplicate Address Detection or running a DHCP server. 6. ...

www.ietf.org/rfc/rfc4947.html - 104k - Cached - Similar pages

Birds-Eye.Net DHCP Recommendations

Device's mac address is checked locally and on the server for duplicates between editing service classes for legacy and DOCSIS cable modems. ...

www.birds-eye.net/technical_archive/headend_provisioning_agent.htm - 51k -

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[dhcwg] RE: Changes for draft-ietf-dhc-implementation-02.txt

Jul 12, 2006 ... The parallel discussions about Duplicate Address Detection have a bearing on the use of both ICMP ECHO and ARP, but for DHCP the use of PING....

www.ietf.org/mail-archive/web/dhcwg/current/msg06353.html - 14k - Cached - Similar pages

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1 Characterization of national Web domains

[Add by](#)

 Ricardo Baeza-Yates, Carlos Castillo, Efthimis N. Efthimiadis
 May 2007 ACM Transactions on Internet Technology (TOIT), Volume 7 Issue 2
 Publisher: ACM

 Full text available: pdf(1.41 MB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 273, Citation Count: 1

During the last few years, several studies on the characterization of the public Web space of various national domains have been published. The pages of a country are an interesting set for studying the characteristics of the Web because at the same ...

Key words: Web characterization, Web measurement

SI

2 Multimedia streaming via TCP: An analytic performance study

E

 Bing Wang, Jim Kurose, Prashant Shenoy, Don Towsley
 May 2008 ACM Transactions on Multimedia Computing, Communications, and Applications (TOMCCAP), Volume 4 Issue 2

Publisher: ACM

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TCP is widely used in commercial multimedia streaming systems, with recent measurement studies indicating that a significant fraction of Internet streaming media is currently delivered over HTTP/TCP. These observations motivate us to develop analytic ...

Key words: Performance modeling, multimedia streaming

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3 Location diversity in anonymity networks

 Nick Feamster, Roger Dingledine
 October 2004 WPES '04: Proceedings of the 2004 ACM workshop on Privacy in the electronic society
 Publisher: ACM

 Full text available: pdf(181.61 KB) [Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 52, Citation Count: 2

Anonymity networks have long relied on diversity of node location for protection against attacks---typically an adversary who can observe a larger fraction of the network can launch a more effective attack. We investigate the diversity of two deployed ...


Keywords: anonymity, interdomain routing, mix networks

4 TCP/IP performance with random loss and bidirectional congestion

T. V. Lakshman, Upamanyu Madhow, Bernhard Suter

October 2000 IEEE/ ACM Transactions on Networking (TON), Volume 8 Issue 5

Publisher: IEEE Press

Full text available:  pdf(287.04 KB) **Additional Information:** [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 82, Citation Count: 5


Keywords: ADSL, TCP, buffer management, cable modems, scheduling

5 The effects of asymmetry on TCP performance

Hari Balakrishnan, Randy H. Katz, Venkata N. Padmanabhan

October 1999 Mobile Networks and Applications, Volume 4 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(382.76 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 87, Citation Count: 6

In this paper, we study the effects of network asymmetry on end-to-end TCP performance and suggest techniques to improve it. The networks investigated in this study include a wireless cable modem network and a packet radio network, both of which can ...

6 Optimization of query streams using semantic prefetching



Ivan T. Bowman, Kenneth Salem

December 2005 ACM Transactions on Database Systems (TODS), Volume 30 Issue 4

Publisher: ACM

Full text available:  pdf(1.10 MB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 115, Citation Count: 0

Streams of relational queries submitted by client applications to database servers contain patterns that can be used to predict future requests. We present the Scalpel system, which detects these patterns and optimizes request streams using context-based ...


Keywords: Prefetching, query streams

7 DHTTP: an efficient and cache-friendly transfer protocol for the web

Michael Rabinovich, Hua Wang

December 2004 IEEE/ ACM Transactions on Networking (TON), Volume 12 Issue 6

Publisher: IEEE Press

Full text available:  pdf(487.71 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


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Today's HTTP carries Web interactions over client-initiated TCP connections. An important implication of using this transport method is that interception caches in the network violate the end-to-end principle of the Internet, which severely limits deployment ...

Key words: HTTP protocol, interception caching, internet, web performance

8 [TCP extensions for space communications](#)


Robert C. Durst, Gregory J. Miller, Eric J. Travis
October 1997 *Wireless Networks*, Volume 3 Issue 5
Publisher: Kluwer Academic Publishers


Full text available:  [pdf\(375.24 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 49, Citation Count: 2

The space communication environment and mobile and wireless communication environments show many similarities when observed from the perspective of a transport protocol. Both types of environments exhibit loss caused by data corruption and link outage, ...

9 [Aliasing on the world wide web: prevalence and performance implications](#)

 Terence Kelly, Jeffrey Mogul
May 2002 *WWW '02: Proceedings of the 11th international conference on World Wide Web*
Publisher: ACM


Full text available:  [pdf\(376.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 38, Citation Count: 14

Aliasing occurs in Web transactions when requests containing different URLs elicit replies containing identical data payloads. Conventional caches associate stored data with URLs and can therefore suffer redundant payload transfers due to aliasing and ...

Key words: DTD, HTTP, WWW, Zipf's law, aliasing, cache hierarchies, caching, duplicate suppression, duplicate transfer detection, hypertext transfer protocol, performance analysis, redundant transfers, resource modification, world wide web

10 [Inferring Internet denial-of-service activity](#)

 David Moore, Colleen Shannon, Douglas J. Brown, Geoffrey M. Voelker, Stefan Savage
May 2006 *ACM Transactions on Computer Systems (TOCS)*, Volume 24 Issue 2
Publisher: ACM

Full text available:  [pdf\(799.20 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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In this article, we seek to address a simple question: "How prevalent are denial-of-service attacks in the Internet?" Our motivation is to quantitatively understand the nature of the current threat as well as to enable longer-term analyses ...

Key words: Backscatter, denial-of-service, network measurement, network security

11 [Comprehensive view of a live network coding P2P system](#)

Christos Gkantsidis, John Miller, Pablo Rodriguez

October 2006 IMC '06: Proceedings of the 6th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: [pdf\(582.13 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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In this paper we present the first implementation of a P2P content distribution system that uses Network Coding. Using results from live trials with several hundred nodes, we provide a detailed performance analysis of such P2P system. In contrast to ...

Key words: NAT issues, content distribution, network coding, peer-to-peer, secure random checksums

12 [Networkmd: topology inference and failure diagnosis in the last mile](#)

Yun Mao, Hani Jamjoom, Shu Tao, Jonathan M. Smith

October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: [pdf\(567.67 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 71, Citation Count: 0

Health monitoring, automated failure localization and diagnosis have all become critical to service providers of large distribution networks (e.g., digital cable and fiber-to-the-home), due to the increases in scale and complexity of their offered ...

Key words: failure diagnosis, network topology inference

13 [Optimization of query streams using semantic prefetching](#)

Ivan T. Bowman, Kenneth Salem

June 2004 SIGMOD '04: Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: [pdf\(224.40 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

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Streams of relational queries submitted by client applications to database servers contain patterns that can be used to predict future requests. We present the Scalpel system, which detects these patterns and optimizes request streams using context-based ...

14 [HeinOnline](#)

Richard J. Marisa

January 2001 JCDL '01: Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM


Full text available: [pdf\(217.98 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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HeinOnline is a new online archive of law journals. Development of He inOnline began in late 1997 through the cooperation of Cornell Information Technologies, William S. Hein & Co., Inc. of Buffalo, NY, and the Cornell Law Library. Built upon the familiar ...


Keywords: dienst, digital library, document structure, law journals, metadata, system design

15 Hands-on approach to teaching computer networking using packet traces

 Jeanna Neefe Matthews

October 2005 SIGTE '05: Proceedings of the 6th conference on Information technology education

Publisher: ACM

Full text available:  pdf(223.40 KB) Additional Information: full citation, abstract, references, index terms

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This paper describes a novel approach to teaching computer networking through packet traces of actual network traffic. The paper describes a set of exercises that use packet traces to clearly illustrate the activity that takes place on the network under ...


Keywords: network protocol analysis

16 Hybrid delivery system for electronic problem solvers (EPS)

Avare Stewart, Arnd Steinmetz, Parviz Kermani, Sherman Austin, Magda Mourad

May 2002 Journal of Computing Sciences in Colleges. Volume 17 Issue 6

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(112.69 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 22, Citation Count: 0

e-Learning is one of the fastest growing trends in higher education. This evolving trend can be classified with respect to the underlying structure and content of these environments. Of particular note is an e-Learning environment, which is structured ...

17 On the performance of traffic equalizers on heterogeneous communication links

 Ji Li, Jack Brassil

August 2006 QShine '06: Proceedings of the 3rd international conference on Quality of service in heterogeneous wired/wireless networks

Publisher: ACM

Full text available:  pdf(109.65 KB) Additional Information: full citation, abstract, references, index terms

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Aggregating the bandwidth of multiple low-cost physical communication links to form a single, higher capacity logical link is a common and inexpensive approach to increasing network performance. Aggregating or bonding links has traditionally been used ...

Keywords: TCP, TEQL, WRR scheduling, link bonding, performance analysis, protocols

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1 Needs assessment for campus-wide network services at Brigham Young University

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Hawaii using IEEE 802.16 wireless network infrastructure

Gary K. W. Wong, Leslie D. Fife

November 2006 SIGUCCS '06: Proceedings of the 34th annual ACM SIGUCCS conference on
User services

Publisher: ACM

Full text available: pdf(387.76 KB) [Additional Information: full citation, abstract, references, index terms](#)

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Wireless technology continues to improve as technology advances throughout the world. Brigham Young University Hawaii (BYUH) is approaching the point where it will be sufficiently mature technologically to benefit from a campus-wide wireless network. ...

Keyw ords: IEEE 802.16, WiMax, campus network service, mobility, security

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1 [Broadband internet network management software platform and systems in KT](#)

Jae-Hyoung Yoo

November 2006 [International Journal of Network Management](#), Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(99.62 KB\)](#)[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 142, Citation Count: 0

The high penetration rate of Internet access services in Korea has created an operational environment that is different from those of other countries, and thus the level of customer needs takes on different aspects. To meet the operational environment, ...

2 [Power line communication network trial and management in Korea](#)

Jae-Jo Lee, Choong Seon Hong, Joon-Myung Kang, James Won-Ki Hong

November 2006 [International Journal of Network Management](#), Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(1.33 MB\)](#)[Additional Information: full citation, abstract, references, index terms](#)

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Power line communication (PLC) has become an important network access technology to conven and effectively provide various useful services such as remote meter reading, broadband Internet access, and home networking services. As the deployment ...

3 [Practical computer security: a new service course based upon the national strategy to secure cyberspace](#)

David W. Valentine

October 2005 [SIGITE'05: Proceedings of the 6th conference on Information technology education](#)

Publisher: ACM

Full text available: [pdf\(193.40 KB\)](#)[Additional Information: full citation, abstract, references, index terms](#)

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The National Strategy to Secure Cyberspace calls upon IT professionals to help empower all Americans to secure their own connections to cyberspace as part of the National security effort. Specifically, it is a call for training the general population ...

Keyw ords: education, model syllabi, security


4 Passive online rogue access point detection using sequential hypothesis testing with TCP

ACK-pairs

Wei Wei, Kyoungwon Suh, Bing Wang, Yu Gu, Jim Kurose, Don Towsley

October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available:  pdf(560.62 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 107, Citation Count: 0

Rogue (unauthorized) wireless access points pose serious security threats to local networks. In this paper, we propose two online algorithms to detect rogue access points using sequential hypothesis tests applied to packet-header data collected passively ...


Keyw ords: TCP ACK-pairs, rogue access point detection, sequential hypothesis testing

5 WiFiProfiler: cooperative diagnosis in wireless LANs

Ranveer Chandra, Venkata N. Padmanabhan, Ming Zhang

June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

Publisher: ACM

Full text available:  pdf(404.12 KB)

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Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 130, Citation Count: 1

While 802.11-based wireless hotspots are proliferating, users often have little recourse when the network does not work or performs poorly *for them*. They are left trying to manually debug the problem, which can be a frustrating and disruptive ...


Keyw ords: 802.11, fault diagnosis, peer-to-peer performance problems, wireless networks

6 A measurement study of vehicular internet access using in situ Wi-Fi networks

Vladimir Bychkovsky, Bret Hull, Allen Miu, Hari Balakrishnan, Samuel Madden

September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available:  pdf(1.52 MB)

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Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 365, Citation Count: 4

The impressive penetration of 802.11-based wireless networks in many metropolitan areas around the world offers, for the first time, the opportunity of a "grassroots" wireless Internet service provided by users who "open up" their 802.11 (Wi-Fi) access ...


Keyw ords: 802.11, Wi-Fi, connectivity, mobile networks, mobility, vehicular mobility, wireless LAN

7 Enhancement of a WLAN-based internet service

Youngkyu Choi, Sekyu Park, Sunghyun Choi, Go Woon Lee, Jaehwan Lee, Hanwook Jung

June 2005 Mobile Networks and Applications, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  pdf(2.62 MB)

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Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 133, Citation Count: 2

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2000. The numbers of subscribers and deployed access points (APs) ...

Key words: IEEE 802.11, WLAN, hotspot service, wireless internet service provider (WISP)

8 How dynamic are IP addresses?



Yinglian Xie, Fang Yu, Kannan Achan, Eliot Gillum, Moises Goldszmidt, Ted Wobber
August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: pdf(553.84 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 409, Citation Count: 0

This paper introduces a novel algorithm, *UDmap*, to identify dynamically assigned IP addresses & analyze their dynamics pattern. UDmap is fully automatic, and relies only on application-level logs. We applied UDmap to a month-long Hotmail ...

Key words: DHCP, IP volatility, dynamic IP addresses, entropy, spam detection

9 How dynamic are IP addresses?



Yinglian Xie, Fang Yu, Kannan Achan, Eliot Gillum, Moises Goldszmidt, Ted Wobber
October 2007 ACM SIGCOMM Computer Communication Review, Volume 37 Issue 4
Publisher: ACM

Full text available: pdf(553.84 KB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 409, Citation Count: 0

This paper introduces a novel algorithm, *UDmap*, to identify dynamically assigned IP addresses & analyze their dynamics pattern. UDmap is fully automatic, and relies only on application-level logs. We applied UDmap to a month-long Hotmail ...

Key words: DHCP, IP volatility, dynamic IP addresses, entropy, spam detection

10 RIPS: Rogue Identifying Packet Payload Slicer Detecting Unauthorized Wireless Hosts Through Network Traffic Conditioning



Chad D. Mano, Andrew Blaich, Qi Liao, Yingxin Jiang, David A. Cieslak, David C. Salyers, Aaron Stri
March 2008 ACM Transactions on Information and System Security (TISSEC), Volume 11 Issue 1
Publisher: ACM

Full text available: pdf(1.16 MB)

Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 199, Citation Count: 0

Wireless network access has become an integral part of computing both at home and at the workplace. The convenience of wireless network access at work may be extremely beneficial to employees, but can be a burden to network security personnel. This burden ...

Key words: network security, rogue systems, traffic conditioning

11 Improved access point selection



Anthony J. Nicholson, Yatin Chawathe, Mike Y. Chen, Brian D. Noble, David Wetherall
June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

Publisher: ACM

Full text available:  pdf(451.33 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 242, Citation Count: 5


This paper presents Virgil, an automatic access point discovery and selection system. Unlike existing systems that select access points based entirely on received signal strength, Virgil scans for all available APs at a location, quickly associates to ...

Key words: 802.11, access point selection, opportunistic connectivity, public networks, wireless networking

12 Enhancement of a WLAN-based Internet service in Korea

 Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung
September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available:  pdf(774.23 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 62, Citation Count: 0

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2000. The numbers of subscribers and deployed access points (APs) ...

Key words: IEEE 802.11, LAN, hotspot service, wireless Internet service provider (WISP)

13 Experiences with worm propagation simulations

 Arno Wagner, Thomas Dübendorfer, Bernhard Plattner, Roman Hiestand
October 2003 WORM '03: Proceedings of the 2003 ACM workshop on Rapid malware
Publisher: ACM

Full text available:  pdf(220.07 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 60, Citation Count: 8

Fast Internet worms are a relatively new threat to Internet infrastructure and hosts. We discuss motivation and possibilities to study the behaviour of such worms and degrees of freedom that writers have. To facilitate the study of fast worms we ...

Key words: bandwidth, Internet worms, latency, simulation

14 FlexPath NP: a network processor concept with application-driven flexible processing path

 Rainer Ohlendorf, Andreas Herkersdorf, Thomas Wild
September 2005 CODES+ISSS '05: Proceedings of the 3rd IEEE/ACM/IFIP international conference on Hardware/software codesign and system synthesis

Publisher: ACM

Full text available:  pdf(261.77 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index term](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 27, Citation Count: 2

In this paper, we present a new architectural concept for network processors called FlexPath NP. The central idea behind FlexPath NP is to systematically map network processor (NP) application sub-functions onto both SW programmable processor (CPU) resources ...

Key words: IP networking, application-specific architectures, dynamically reconfigurable processing hardware accelerators, network processors

15 [Hands-on approach to teaching computer networking using packet traces](#)

Jeanna Neeffe Matthews

October 2005 SIGITE '05: Proceedings of the 6th conference on Information technology education

Publisher: ACM

Full text available: [pdf\(233.40 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 97, Citation Count: 0

This paper describes a novel approach to teaching computer networking through packet traces of actual network traffic. The paper describes a set of exercises that use packet traces to clearly illustrate the activity that takes place on the network under ...

Keywords: network protocol analysis

16 [Linux for suits: the sound of Linux](#)

Doc Searls

March 2006 Linux Journal, Volume 2006 Issue 143

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(22.92 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 14, Citation Count: 0

6

17 [Wireless commons perils in the common good](#)

Jan Damsgaard, Mihir A. Parikh, Bharat Rao

February 2006 Communications of the ACM, Volume 49 Issue 2

Publisher: ACM

Full text available: [pdf\(98.66 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 166, Citation Count: 0

In the last few years, high-speed wireless access to the Internet has grown rapidly. Surprisingly, growth has not come through cellular phone networks as many had expected, but through IEEE 802.11 standards-based wireless local area networks (WLANs). ...

18 [Linux at Holt Public Schools](#)

Mark Lachniet

September 1997 Linux Journal, Volume 1997 Issue 41es

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(13.90 KB\)](#)Additional Information: [full citation](#), [abstract](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 7, Citation Count: 0

WAN links and linux proxy servers form the basis of a computer network for this Michigan public school system

19 [BATTLE of the bandwidth](#)

Keiko Pitter, Kevin Kelly, Michael Quiner

October 2004 SIGUCCS '04: Proceedings of the 32nd annual ACM SIGUCCS conference on User ser

Publisher: ACM

Full text available:  pdf (157.02 KB)

Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 37, Citation Count: 0

Whitman College, like all other residential institutions of higher education, has been struggling w
taming the bandwidth for the Residence Hall network. It doesn't seem to matter how much
bandwidth is provided, or how much packet shaping effort is ...

Keyw ords: P2P, bandwidth, higher education, peer to peer, residential network

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1 [Networkmd: topology inference and failure diagnosis in the last mile](#)

 Yun Mao, Hani Jamjoom, Shu Tao, Jonathan M. Smith
 October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: pdf(567.67 KB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 71, Citation Count: 0

Health monitoring, automated failure localization and diagnosis have all become critical to service providers of large distribution networks (e.g., digital cable and fiber-to-the-home), due to the increases in scale and complexity of their offered ...

Key words: failure diagnosis, network topology inference

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2 [Characterizing residential broadband networks](#)

 Marcel Dischinger, Andreas Haeberlen, Krishna P. Gummadi, Stefan Saroiu
 October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: pdf(728.98 KB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 38, Downloads (12 Months): 243, Citation Count: 0

A large and rapidly growing proportion of users connect to the Internet via residential broadband networks such as Digital Subscriber Lines (DSL) and cable. Residential networks are often the bottleneck in the last mile of today's Internet. Their characteristics ...

Key words: broadband access networks, cable, dsl, network measurement

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3 [Automated network games enhancement layer: a proposed architecture](#)

 Jason But, Nigel Williams, Sebastian Zander, Lawrence Stewart, Grenville Armitage
 October 2006 NetGames '06: Proceedings of 5th ACM SIGCOMM workshop on Network and system support for games

Publisher: ACM

Full text available: pdf(403.06 KB) [Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 125, Citation Count: 0

In this paper we present the design of the Automated Network Games Enhancement Layer (ANGEL), a novel architecture for meeting Quality of Service (QoS) requirements of real-time network game traffic across consumer broadband links. Consumer access links ...

Results 1 - 3 of 3

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1 [Broadband internet network management software platform and systems in KT](#)

Jae-Hyoung Yoo

November 2006 International Journal of Network Management, Volume 16 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available: pdf(999.62 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 142, Citation Count: 0

The high penetration rate of Internet access services in Korea has created an operational environment that is different from those of other countries, and thus the level of customer needs takes on different aspects. To meet the operational environment, ...

2 [Reliable network connections](#)

Victor C. Zandy, Barton P. Miller

September 2002 MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: pdf(272.01 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 94, Citation Count: 10

We present two systems, reliable sockets (rocks) and reliable packets (racks), that provide transparent network connection mobility using only user-level mechanisms. Each system can detect a connection failure within seconds of its occurrence, preserve ...

 Keywords: [network connection mobility](#)

3 [A measurement study of vehicular internet access using in situ Wi-Fi networks](#)

Vladimir Bychkovsky, Bret Hull, Allen Miu, Hari Balakrishnan, Samuel Madden

September 2006 MobiCom '06: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: pdf(1.52 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 365, Citation Count: 4

The impressive penetration of 802.11-based wireless networks in many metropolitan areas around the world offers, for the first time, the opportunity of a "grassroots" wireless Internet service provided by users who "open up" their 802.11 (Wi-Fi) access ...

Keyw ords: 802.11, Wi-Fi, connectivity, mobile networks, mobility, vehicular mobility, wireless L

4 The feasibility of supporting large-scale live streaming applications with dynamic applicatio end-points



Kunwadee Sripanidkulchai, Aditya Ganjam, Bruce Maggs, Hui Zhang

August 2004 SIGCOMM '04: Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available: pdf(461.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 134, Citation Count: 13

While application end-point architectures have proven to be viable solutions for large-scale distributed applications such as distributed computing and file-sharing, there is little known about its feasibility for more bandwidth-demanding applications ...

Keyw ords: application-level multicast, live streaming, overlay multicast, peer-to-peer

5 The feasibility of supporting large-scale live streaming applications with dynamic applicatio end-points



Kunwadee Sripanidkulchai, Aditya Ganjam, Bruce Maggs, Hui Zhang

August 2004 ACM SIGCOMM Computer Communication Review, Volume 34 Issue 4

Publisher: ACM

Full text available: pdf(461.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Keyw ords: application-level multicast, live streaming, overlay multicast, peer-to-peer

6 An analysis of live streaming workloads on the internet



Kunwadee Sripanidkulchai, Bruce Maggs, Hui Zhang

October 2004 IMC '04: Proceedings of the 4th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available: pdf(3.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 123, Citation Count: 8

In this paper, we study the live streaming workload from a large content delivery network. Our data, collected over a 3 month period, contains over 70 million requests for 5,000 distinct URLs from clients in over 200 countries. To our knowledge, this ...

Keyw ords: content delivery networks, live streaming

7 Enhancement of a WLAN-based internet service

Youngkyu Choi, Sekyu Park, Sunghyun Choi, Go Woon Lee, Jaehwan Lee, Hanwook Jung

June 2005 Mobile Networks and Applications, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.62 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 133, Citation Count: 2

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational since early 2000. As the numbers of subscribers and deployed access points (APs) ...

Key words: IEEE 802.11, WLAN, hotspot service, wireless internet service provider (WISP)

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Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung
September 2003 WMASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots

Publisher: ACM

Full text available: pdf(774.23 KB) Additional Information: full citation, abstract, references, index terms

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9 Automated network games enhancement layer: a proposed architecture



Jason But, Nigel Williams, Sebastian Zander, Lawrence Stewart, Grenville Armitage
October 2006 NetGames '06: Proceedings of 5th ACM SIGCOMM workshop on Network and system support for games

Publisher: ACM

Full text available: pdf(403.06 KB) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 125, Citation Count: 0

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10 New products

Linux Journal Staff
June 2002 Linux Journal, Volume 2002 Issue 98
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(7.09 KB) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 1, Citation Count: 0

11 The Linux Home Network

Preston F. Crow
April 2000 Linux Journal, Volume 2000 Issue 72es
Publisher: Specialized Systems Consultants, Inc.

Full text available: html(14.27 KB) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 21, Citation Count: 0

Everything you need to know to make those Internet and intranet connections at home.

12 WiFiProfiler: cooperative diagnosis in wireless LANs
 Ranveer Chandra, Venkata N. Padmanabhan, Ming Zhang

June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services

Publisher: ACM


Full text available:  pdf(404.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 130, Citation Count: 1

While 802.11-based wireless hotspots are proliferating, users often have little recourse when the network does not work or performs poorly *for them*. They are left trying to manually debug the problem, which can be a frustrating and disruptive ...

Key words: 802.11, fault diagnosis, peer-to-peer performance problems, wireless networks

13 Characterizing residential broadband networks
 Marcel Dischinger, Andreas Haeberlen, Krishna P. Gummadi, Stefan Saroiu

October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM


Full text available:  pdf(726.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

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Key words: broadband access networks, cable, dsl, network measurement

14 Home networking and HCI: what hath god wrought?
 Erika Shehan, W. Keith Edwards

April 2007 CHI '07: Proceedings of the SIGCHI conference on Human factors in computing system

Publisher: ACM

Full text available:  pdf(403.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 338, Citation Count: 0

For much of the industrialized world, network connectivity in the home is commonplace. Despite the large number of networked homes, even the most technically savvy people can have difficulty with home network installation and maintenance. We contend ...

Key words: computer networking, home computing, home networking, infrastructure, troubleshooting, ubiquitous computing

15 How dynamic are IP addresses?
 Yinglian Xie, Fang Yu, Kannan Achan, Eliot Gillum, Moises Goldszmidt, Ted Wobber

August 2007 SIGCOMM '07: Proceedings of the 2007 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(553.84 KB)

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Key words: DHCP, IP volatility, dynamic IP addresses, entropy, spam detection

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Yinglian Xie, Fang Yu, Kannan Achan, Eliot Gillum, Moises Goldszmidt, Ted Wobber
October 2007 ACM SIGCOMM Computer Communication Review, Volume 37 Issue 4
Publisher: ACM

Full text available: [pdf\(553.84 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 72, Downloads (12 Months): 409, Citation Count: 0

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17 [Improved access point selection](#)



Anthony J. Nicholson, Yatin Chawathe, Mike Y. Chen, Brian D. Noble, David Wetherall
June 2006 MobiSys '06: Proceedings of the 4th international conference on Mobile systems, applications and services
Publisher: ACM

Full text available: [pdf\(451.33 KB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 242, Citation Count: 5

This paper presents Virgil, an automatic access point discovery and selection system. Unlike existing systems that select access points based entirely on received signal strength, Virgil scans for all available APs at a location, quickly associates to ...

Key words: 802.11, access point selection, opportunistic connectivity, public networks, wireless networking

18 [RIPPS: Rogue Identifying Packet Payload Slicer Detecting Unauthorized Wireless Hosts Through Network Traffic Conditioning](#)



Chad D. Mano, Andrew Blaich, Qi Liao, Yingxin Jiang, David A. Cieslak, David C. Salyers, Aaron Striegel
March 2008 ACM Transactions on Information and System Security (TISSEC), Volume 11 Issue
Publisher: ACM

Full text available: [pdf\(1.16 MB\)](#) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 199, Citation Count: 0

Wireless network access has become an integral part of computing both at home and at the workplace. The convenience of wireless network access at work may be extremely beneficial to employees, but can be a burden to network security personnel. This burden ...

Key words: network security, rogue systems, traffic conditioning

19 [Networkmd: topology inference and failure diagnosis in the last mile](#)



Yun Mao, Hani Jamjoom, Shu Tao, Jonathan M. Smith
October 2007 IMC '07: Proceedings of the 7th ACM SIGCOMM conference on Internet measurement

Publisher: ACM

Full text available:  pdf(567.67 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 71, Citation Count: 0

Health monitoring, automated failure localization and diagnosis have all become critical to service providers of large distribution networks (*e.g.*, digital cable and fiber-to-the-home), due to the increases in scale and complexity of their offered ...

Keyw ords: failure diagnosis, network topology inference

20 The Family Dynamics of 802.11



May 2003 Queue, Volume 1 Issue 3

Publisher: ACM

Full text available:  pdf(622.71 KB)  html(41.31 KB) Additional Information: [full citation](#), [cited by](#), [index terms](#)

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Result page: [<<](#) [previous](#) [1](#) [2](#)21 [Hands-on approach to teaching computer networking using packet traces](#)

Jeanna Neeffe Matthews

October 2005 SI GI TE '05: Proceedings of the 6th conference on Information technology education

Publisher: ACM

Full text available: [pdf\(232.40 KB\)](#)[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 97, Citation Count: 0

This paper describes a novel approach to teaching computer networking through packet traces of actual network traffic. The paper describes a set of exercises that use packet traces to clearly illustrate the activity that takes place on the network under ...

Key words: network protocol analysis

22 [Best of technical support](#)

Linux Journal Staff

April 2005 Linux Journal, Volume 2005 Issue 132

Publisher: Specialized Systems Consultants, Inc.

Full text available: [html\(27.74 KB\)](#) [Additional Information: full citation, abstract, index terms](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 16, Citation Count: 0

[i](#)23 [Is your resNet support boat sinking?: try outsourcing!](#)

Brien G. Muller, Mark A. Bauer

November 2005 SI GUCCS '05: Proceedings of the 33rd annual ACM SIGUCCS conference on User services

Publisher: ACM

Full text available: [pdf\(147.51 KB\)](#)[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 17, Citation Count: 0

Skidmore is a small liberal arts College with 1,800 residential students. Nearly every student has their own computer and some have more than one, so support is becoming an ever increasing challenge. With viruses, worms and spyware running rampant in ...

Key words: outsource, resNet, students, support

24 [Getting in the Fast Lane](#)

Michael Hughes

June 1998 *Linux Journal*, Volume 1998 Issue 50es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(20.87 KB\)](#) Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 7, Citation Count: 0

Here's how to set up a broadband connection for your home or office LAN

25 [Rationalizing a home terabyte server](#)



Mache Creeger

September 2006 *Queue*, Volume 4 Issue 7

Publisher: ACM

Full text available:  [pdf\(84.48 KB\)](#)  [html\(9.54 KB\)](#) Additional Information: full citation, abstract, index terms

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 47, Citation Count: 0


Self-indulgent, or a view of the future?

26 [Review: Snapgear lite: an inexpensive home office/small office firewall and VPN client](#)

Alan Zeichick

April 2002 *Linux Journal*, Volume 2002 Issue 96

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(11.74 KB\)](#) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 20, Citation Count: 0

27 [Best of Technical Support](#)

Linux Journal Staff

November 2000 *Linux Journal*, Volume 2000 Issue 80es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(14.58 KB\)](#) Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 13, Citation Count: 0

28 [Focus on the SMC networks Barricade](#)

Gilbert Held

November 2002 *International Journal of Network Management*, Volume 12 Issue 6

Publisher: John Wiley & Sons, Inc.

Full text available:  [pdf\(447.90 KB\)](#) Additional Information: full citation, index terms


Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 14, Citation Count: 0

29 [Letters to the Editor](#)

Linux Journal Staff

November 1998 Linux Journal, Volume 1998 Issue 55es

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(12.56 KB\)](#)

[Additional Information: full citation, index terms](#)


Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 2, Citation Count: 0

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